

# UCLA INTERNATIONAL HLA DNA EXCHANGE—167TH SUMMARY



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DNA Sample	
#1023	#1026
#1024	#1027
#1025	#1028

## DNA #1023 ASIAN

The consensus type for this sample from an Asian donor is A\*24:02-A\*26:01-B\*35:01-B\*40:01-C\*03:03-C\*03:04-DRB1\*04:03-DRB1\*09:01-DRB4\*01:03-DQA1\*03:01-DQA1\*03:02-DQB1\*03:02-DQB1\*03:03-DPA1\*01:03-DPA1\*02:02-DPB1\*02:02-DPB1\*21:01.

The likely associations for this cell are A\*24:02-B\*35:01-DRB1\*04:03 and A\*26:01-B\*40:01-DRB1\*09:01, with respective frequencies of HF=0.00136 and HF=0.00044, as seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #1023 are summarized in Table 1 and individual laboratory results are listed in Tables 7-9.

## DNA #1024 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*02:06-A\*24:02-B\*48:01-B\*57:01-C\*06:02-C\*08:01-DRB1\*04:04-DRB1\*07:01-DRB4\*01:03-DRB4\*01:03:01:02N-DQA1\*02:01-DQA1\*03:01-DQB1\*03:02-DQB1\*03:03-DPA1\*01:03-DPA1\*02:01-DPB1\*04:01-DPB1\*05:01.

The likely class II associations for this cell are DRB1\*04:04-DQB1\*03:02 and DRB1\*07:01-DQB1\*03:03, with respective frequencies of HF=0.04912 and HF=0.01484, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1024 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12.

## DNA #1025 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A\*02:01-A\*30:02-B\*18:01-B\*44:02-C\*05:01-DRB1\*03:01-DRB1\*04:01-DRB3\*02:02-DRB4\*01:03-DQA1\*03:03-DQA1\*05:01-DQB1\*02:01-DQB1\*03:01-DPA1\*01:03-DPB1\*02:02-DPB1\*20:01.

The likely class I associations for this cell are A\*02:01-B\*44:02-C\*05:01 and A\*30:02-B\*18:01-C\*05:01, with respective frequencies of HF=0.05370 and HF=0.00564, as seen in Caucasians, according to the NMDP Bioinformatics website.

The results for DNA #1025 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15.



DNA Sample	
#1023	#1026
#1024	#1027
#1025	#1028

### DNA #1026 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*02:01-A\*02:06-B\*07:02-B\*40:02-C\*03:06-C\*07:02-DRB1\*08:02-DRB1\*15:01-DRB5\*01:01-DQA1\*01:02-DQA1\*04:01-DQB1\*04:02-DQB1\*06:02-DPA1\*01:03-DPB1\*04:01.

The likely class II associations in this cell are DRB1\*08:02-DQB1\*04:02 and DRB1\*15:01-DQB1\*06:02, with respective frequencies of HF=0.05612 and HF=0.06076, as seen in Hispanic, according to the NMDP Bioinformatics website.

The results for DNA #1026 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18.

### DNA #1027 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A\*24:02-A\*29:02-B\*07:02-B\*44:03-C\*07:02-C\*16:01-DRB1\*07:01-DRB1\*15:01-DRB4\*01:01-DRB5\*01:01-DQA1\*01:02-DQA1\*02:01-DQB1\*02:02-DQB1\*06:02-DPA1\*01:03-DPB1\*04:01.

The likely class I associations in this cell are A\*24:02-B\*07:02-C\*07:02 and A\*29:02-B\*44:03-C\*16:01, with respective frequencies of HF=0.01472 and HF=0.02340, as seen in Caucasian, according to the NMDP Bioinformatics website.

The results for DNA #1027 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21.

### DNA #1028 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*03:01-A\*33:01-B\*07:02-B\*14:02-C\*07:02-C\*08:02-DRB1\*11:04-DRB1\*15:01-DRB3\*02:02-DRB5\*01:01-DQA1\*01:02-DQA1\*05:05-DQB1\*03:01-DQB1\*06:02-DPA1\*01:03-DPB1\*04:01.

The likely associations in this cell are A\*03:01-B\*07:02-DRB1\*15:01 and A\*33:01-B\*14:02-DRB1\*11:04, with respective frequencies of HF=0.01293 and HF=0.00025, as seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #1028 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24.

#### ACKNOWLEDGMENTS:

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**Table 1. Summary of the 167th DNA Exchange (DNA #1023)**

A				B				C			
59 labs High / 68 labs Low		% (n)		61 labs High / 66 labs Low		% (n)		62 labs High / 61 labs Low		% (n)	
A*24:02:01:01	2 (1)	A*26:01:01:01	7 (4)	B*35:01:01	27(16)	B*40:01:02	26(16)	C*03:03:01:01	2 (1)	C*03:04:01:02	2 (1)
A*24:02:01	26(15)	A*26:01:01	22(13)	B*35:01:01G	10(6)	B*40:01:01G	10(6)	C*03:03:01	24(15)	C*03:04:01	25(15)
A*24:02:01G	10(3)	A*26:01:01G	10(6)	B*35:01P	7 (4)	B*40:01P	7 (4)	C*03:03:01G	10(6)	C*03:04:01G	10(6)
A*24:02P	5 (3)	A*26:01P	5 (3)	B*35:01	56(33)	B*40:01	57(35)	C*03:03P	5 (3)	C*03:04P	7 (4)
A*24:02	57(33)	A*26:01	56(33)	B*35	100(66)	B*40	100(66)	C*03:03	60(37)	C*03:04	53(52)
A*24	100(66)	A*26	100(68)					C*03	100(61)	C*03:02	3 (2)
										C*03	100(61)
DRB1				DRB3/4/5				DQA1			
62 labs High / 68 labs Low		% (n)		34 labs High / 41 labs Low		% (n)		44 labs High / 43 labs Low		% (n)	
DRB1*04:03:01	21(13)	DRB1*09:01:02	18(11)	DRB4*01:03:02	3 (1)			DQA1*03:01:01:01	7 (3)	DQA1*03:02:01:01	7 (3)
DRB1*04:03P	16(10)	DRB1*09:01:02G	13(8)	DRB4*01:03:01	29(10)			DQA1*03:01:01	25(11)	DQA1*03:02:01	26(11)
DRB1*04:03	62(38)	DRB1*09:01P	16(10)	DRB4*01:01:01G	6 (2)			DQA1*03:01:01G	7 (3)	DQA1*03:01:01G	7 (3)
DRB1*04	100(67)	DRB1*09:01	53(33)	DRB4*01:01P	6 (2)			DQA1*03:01P	2 (1)	DQA1*03:01P	2 (1)
		DRB1*09	100(67)	DRB4*01:03	53(18)			DQA1*03:01	59(26)	DQA1*03:01	56(24)
				<i>DRB4*01:01</i>	3 (1)			DQA1*03	100(43)	<i>DQA1*02:01</i>	2 (1)
				DRB4*01	68(28)					DQA1*03	100(43)
				DRB4*PRESENT	29(12)						
				<i>DRB5*PRESENT</i>	2 (1)						
DQB1				DPA1				DPB1			
60 labs High / 64 labs Low		% (n)		30 labs High / 35 labs Low		% (n)		56 labs High / 31 labs Low		% (n)	
DQB1*03:02:01	13(8)	DQB1*03:03:02:02	2 (1)	DPA1*01:03:01	43(13)	DPA1*02:02:02	47(14)	DPB1*02:02:01	27(15)	DPB1*21:01P	7 (4)
DQB1*03:02:01G	18(11)	DQB1*03:03:02	25(15)	DPA1*01:03:01G	3 (1)	DPA1*02:02P	3 (1)	DPB1*02:02:01G	5 (3)	DPB1*21:01	93(52)
DQB1*03:02P	8 (5)	DQB1*03:03:02G	8 (5)	DPA1*01:03	53(16)	DPA1*02:02	50(15)	DPB1*02:02P	9 (5)	DPB*21	100(31)
DQB1*03:02	60(36)	DQB1*03:03P	5 (3)	DPA1*01	97(33)	DPA1*02	100(35)	DPB1*02:02	59(33)		
DQB1*03	100(64)	DQB1*03:03	60(36)	<i>DPA1*03</i>	3 (1)			DPB1*02(DP202)	100(31)		
		DQB1*03	98(63)								
		<i>DQB1*04</i>	2 (1)								

Discrepant results from consensus are italicized in Tables 1-6





**Table 4. Summary of the 167th DNA Exchange (DNA #1026)**

A				B				C			
60 labs High / 62 labs Low		% (n)		60 labs High / 62 labs Low		% (n)		61 labs High / 57 labs Low		% (n)	
A*02:01:01:01	2 (1)	A*02:06:01:01	2 (1)	B*07:02:01:01	2 (1)	B*40:02:01	30(18)	C*03:06:01	38(23)	C*07:02:01:03	2 (1)
A*02:01:01	29(17)	A*02:06:01	27(16)	B*07:02:01	28(17)	B*40:02:01G	8 (5)	C*03:06	58(35)	C*07:02:01	28(17)
A*02:01:01G	8 (5)	A*02:06:01G	8 (5)	B*07:02:01G	8 (5)	B*40:02P	3 (2)	C*03:02	2 (1)	C*07:02:01G	7 (4)
A*02:01P	7 (4)	A*02:06P	3 (2)	B*07:02P	3 (2)	B*40:02	58(34)	C*03:04	2 (1)	C*07:02P	3 (2)
A*02:01	54(32)	A*02:06	60(36)	B*07:02	58(35)	B*40	100(62)	C*03	100(57)	C*07:02	59(36)
A*02	100(62)	A*02	100(61)	B*07	100(62)					C*07:01	2 (1)
										C*07	100(57)

  

DRB1				DRB3/4/5				DQA1			
58 labs High / 64 labs Low		% (n)		35 labs High / 41 labs Low		% (n)		43 labs High / 40 labs Low		% (n)	
DRB1*08:02:01	31(18)	DRB1*15:01:01	23(13)	DRB5*01:01:01	37(13)			DQA1*01:02:01	35(15)	DQA1*04:01:01	34(15)
DRB1*08:02P	5 (3)	DRB1*15:01:01G	10(6)	DRB5*01:01:01G	3 (1)			DQA1*01:02:01G	5 (2)	DQA1*04:01:01G	4 (2)
DRB1*08:02	64(37)	DRB1*15:01P	10(6)	DRB5*01:01P	6 (2)			DQA1*01:02	60(26)	DQA1*04:01	61(27)
DRB1*08	100(64)	DRB1*15:01	56(32)	DRB5*01:01	54(19)			DQA1*01	100(40)	DQA1*04	100(40)
		DRB1*15	100(64)	DRB5*01	68(28)						
				DRB5*PRESENT	32(13)						

  

DQB1				DPA1				DPB1			
59 labs High / 61 labs Low		% (n)		31 labs High / 32 labs Low		% (n)		55 labs High / 31 labs Low		% (n)	
DQB1*04:02:01:04	2 (1)	DQB1*06:02:01:01	2 (1)	DPA1*01:03:01	39(12)			DPB1*04:01:01	31(17)		
DQB1*04:02:01	22(13)	DQB1*06:02:01	23(13)	DPA1*01:03:01G	10(3)			DPB1*04:01:01G	7 (4)		
DQB1*04:02:01G	8 (5)	DQB1*06:02:01G	10(6)	DPA1*01:03P	3 (1)			DPB1*04:01P	9 (5)		
DQB1*04:02P	3 (2)	DQB1*06:02P	3 (2)	DPA1*01:03	48(15)			DPB1*04:01	53(29)		
DQB1*04:02	64(38)	DQB1*06:02	61(35)	DPA1*01	100(32)			DPB1*04(DP401)	31(100)		
DQB1*04	100(61)	DQB1*06	100(61)								

Discrepant results from consensus are italicized in Tables 1-6



**Table 6. Summary of the 167th DNA Exchange (DNA #1028)**

A		B				C					
53 labs High / 60 labs Low		% (n)		54 labs High / 59 labs Low		% (n)		53 labs High / 55 labs Low		% (n)	
A*03:01:01:01	11(6)	A*33:01:01:01	11(6)	B*07:02:01:01	2 (1)	B*14:02:02:01	11(6)	C*07:02:01:03	2 (1)	C*08:02:01	33(17)
A*03:01:01	24(13)	A*33:01:01	24(13)	B*07:02:01	28(15)	B*14:02:01	22(12)	C*07:02:01	30(16)	C*08:02:01G	8 (4)
A*03:01:01G	7 (4)	A*33:01:01G	7 (4)	B*07:02:01G	11(6)	B*14:02:01G	11(6)	C*07:02:01G	9 (5)	C*08:02P	4 (2)
A*03:01P	6 (3)	A*33:01P	6 (3)	B*07:02P	4 (2)	B*14:02P	6 (3)	C*07:02P	6 (3)	C*08:02	56(29)
A*03:01	51(27)	A*33:01	51(27)	B*07:02	55(29)	B*14:02	48(26)	C*07:02	53(28)	C*08	98(54)
A*03	100(60)	A*33	100(60)	B*07	100(59)	<i>B*14:01</i>	2 (1)	C*07	100(55)	C*05	2 (1)
						B*14	100(59)				

DRB1		DRB3/4/5				DQA1					
51 labs High / 62 labs Low		% (n)		32 labs High / 39 labs Low		% (n)		41 labs High / 40 labs Low		% (n)	
DRB1*11:04:01	35(18)	DRB1*15:01:01	23(12)	DRB3*02:02:01	41(13)	DRB5*01:01:01	37(12)	DQA1*01:02:01	35(14)	DQA1*05:05:01	32(13)
DRB1*11:04:01G	2 (1)	DRB1*15:01:01G	14(7)	DRB3*02:02:01G	3 (1)	DRB5*01:01:01G	6 (3)	DQA1*01:02:01G	5 (2)	DQA1*05:05:01G	2 (1)
DRB1*11:04P	4 (2)	DRB1*15:01P	10(5)	DRB3*02:02P	6 (2)	DRB5*01:0P	3 (1)	DQA1*01:02	60(24)	DQA1*05:01P	2 (1)
DRB1*11:04	59(30)	DRB1*15:01	53(27)	DRB3*02:02	50(16)	DRB5*01:01	53(17)	DQA1*01	100(40)	DQA1*05:05	61(25)
DRB1*11	100(62)	DRB1*15	100(62)	DRB3*02	68(26)	DRB5*01	62(24)			<i>DQA1*05:10</i>	2 (1)
				DRB3*PRESENT	32(12)	DRB4*01	3 (1)			DQA1*05	100(40)
						DRB5*PRESENT	36(14)				

DQB1		DPA1				DPB1					
51 labs High / 59 labs Low		% (n)		30 labs High / 30 labs Low		% (n)		49 labs High / 29 labs Low		% (n)	
DQB1*03:01:01:02	2 (1)	DQB1*06:02:01:01	2 (1)	DPA1*01:03:01:04	3 (1)			DPB1*04:01:01	33(16)		
DQB1*03:01:01	12(6)	DQB1*06:02:01	23(12)	DPA1*01:03:01	33(10)			DPB1*04:01:01G	8 (4)		
DQB1*03:01:01G	20(10)	DQB1*06:02:01G	10(5)	DPA1*01:03:01G	10(3)			DPB1*04:01P	14(7)		
DQB1*03:01P	8 (4)	DQB1*06:02P	4 (2)	DPA1*01:03P	3 (1)			DPB1*04:01	45(22)		
DQB1*03:01	59(30)	DQB1*06:02	61(31)	DPA1*01:03	50(15)			DPB1*04(DP401)	100(29)		
DQB1*03	100(59)	DQB1*06	100(59)	DPA1*01	100(30)						

Discrepant results from consensus are italicized in Tables 1-6



**Table 7. Individual laboratory results for DNA # 1023 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01G	03:03:02	01:03:01	02:02:02	02:02:01	21:01
16	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01G	03:03:02	01:03:01	02:02:02	02:02:01	21:01
124	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:03:02	4*01:01:01	03:01:01	03:02:01	03:02	03:03:02	01:03:01	02:02:02	02:02:01	21:01
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	24:02:01G	26:01:01G	35:01:01G	40:01:01G	03:03:01G	03:04:01G	04:03P	09:01P	4*01:01P	4*01:01P	03:01:01G	03:01:01G	03:02P	03:03P	NT	NT	02:02:01G	21:01
188	24:02	26:01:01:01	35:01	40:01	03:03	03:04	04:03P	09:01P	NT	NT	03:01:01:01	03:02:01:01	03:02:01	03:03:02:02	01:03	02:02	02:02	21:01
189	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
190	24:02:01	26:01:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03P	09:01P	NT	NT	NT	NT	03:02P	03:03:02	NT	NT	02:02:01	21:01
192	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03	09:01:02G	4*01:01:01G	4*01:03:02	03:01:01	03:02:01	03:02:01G	03:03:02	01:03:01	02:02:02	02:02:01	21:01
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:03:01	4*01:03:01	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:02:01	21:01
213	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01P	4*01:03	4*01:03	03:01	03:02	03:02	03:03	NT	NT	02:02	21:01
218	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	02:02	21:01
227	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
240	24:02	26:01	35:01	40:01	03:03	03:04	04:03P	09:01P	NT	NT	03:01	03:02	03:02P	03:03	NT	NT	02:02	21:01
258	24:02:01	26:01:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02G	4*01:03:01	4*01:03:02	03:01:01:01	03:02:01:01	03:02:01G	03:03:02	01:03:01	02:02:02	02:02:01	21:01
264	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:02:01	21:01
278	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
279	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01P	NT	NT	03:01	03:02	03:02	03:03	NT	NT	02:02	21:01
294	NT	NT	35:01P	40:01P	03:03	03:04P	NT	09:01P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:02:01	21:01
316	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
323	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	02:02	21:01
331	24:02:01:01	26:01:01:01	35:01:01	40:01:02	03:03:01:01	03:04:01:02	04:03:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01:01	03:02:01:01	03:02:01	03:03:02	01:03:01	02:02:02	02:02:01	21:01
341	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	NT	NT	02:02	21:01
403	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02G	NT	NT	NT	NT	03:02:01G	03:03:02	NT	NT	02:02:01	21:01
726	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
769	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
805	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01:02G	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
1189	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	21:01
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	21:01
3325	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
3410	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	02:02	21:01
3582	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:02:01	21:01
3614	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
4551	24:02P	26:01P	35:01P	40:01P	03:03P	03:04P	04:03P	09:01P	NT	NT	03:01P	03:01P	03:02P	03:03P	NT	NT	02:02P	21:01P
4582	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:02:01	21:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:03:01	4*01:03:02	03:01:01	03:02:01	03:02:01G	03:03:02	01:03:01	02:02:02	02:02:01	21:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Final Consensus based on High Resolution	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
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**Table 8. Individual laboratory results for DNA # 1023 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02P	21:01
144	24:02:01G	26:01:01G	35:01:01G	40:01:01G	03:03:01G	03:04:01G	04:03P	09:01:02G	NT	NT	03:01:01G	03:01:01G	03:02:01G	03:03:02G	01:03:01G	02:02P	02:02:01G	21:01P
151	24:02:01G	26:01:01G	35:01:01G	40:01:01G	03:03:01G	03:04:01G	04:03	09:01:02G	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	02:02	21:01
155	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
162	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	04:03	09:01	NT	NT	03:01	03:02	03:02	03:03	NT	NT	02:02	21:01
176	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	03:01	03:02	03:02	03:03	NT	NT	02:02	21:01
193	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
207	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	04:03:01	09:01:02	4*01:01P	4*01:01P	03:01:01	03:02:01	03:02:01	03:03:02	01:03:01	02:02:02	02:02:01	21:01
209	24:02:01G	26:01:01G	35:01:01G	40:01:01G	03:03:01G	03:04:01G	04:03P	09:01P	4*01:01:01G	4*01:01:01G	03:01:01G	03:01:01G	03:02:01G	03:03:02G	NT	NT	02:02:01G	21:01
238	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	NP	03:01	03:02	03:02	03:03	NT	NT	02:02	21:01
239	NT	NT	NT	40:01	03:03	NT	04:03	09:01	4*01:03	4*01:03	03:01	NT	03:02	03:03	NT	NT	02:02	21:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	04:03	09:01	NT	NT	03:01	03:02	03:02	03:03	NT	NT	NT	NT
267	24:02	26:01	35:01	40:01	03:03	03:02	04:03	09:01	4*01:03	4*01:01	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01
280	24:02:01G	26:01:01G	35:01:01G	40:01:01G	03:03	03:04	04:03P	09:01:02G	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	NT	NT
292	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
317	24:02	26:01	35:01	40:01	03:03	03:02	04:03	09:01	4*01:01	NP	03:01	02:01	03:02	03:03	01:03	02:02	02:02	21:01
402	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	02:02	21:01
714	24:02P	26:01P	35:01P	40:01P	03:03P	03:04P	04:03P	09:01P	NT	NT	NT	NT	03:02P	03:03P	NT	NT	02:02P	21:01P
1686	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	NT	03:01	03:02	03:02	03:03	01:03	02:02:02	02:02	21:01
3438	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02P	21:01P
3625	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	NT	NT	03:01	03:02	03:02	03:03	NT	NT	02:02	21:01
3849	NT	NT	NT	NT	03:03:01G	03:04:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	NT	26:01	NT	40:01	03:03	NT	04:03	09:01	NT	NT	03:01	03:02	03:02	03:03	NT	NT	02:02	21:01
4545	24:02:01G	26:01:01G	35:01:01G	40:01:01G	03:03:01G	03:04:01G	04:03P	09:01:02G	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	02:02	21:01
4613	24:02P	26:01P	35:01P	40:01P	03:03P	03:04P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02P	21:01
5451	24:02:01	26:01:01	35:01:01	40:01:02	03:03:01	03:04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	24:02	26:01	35:01	40:01	03:03	03:04	04:03	09:01	4*01:03	4*01:03	03:01	03:02	03:02	03:03	01:03	02:02	02:02	21:01

**Table 9. Individual laboratory results for DNA # 1023 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
124	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
134	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
138	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
144	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	01	02	02(DP202)	21
147	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
148	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	24	26	35	40	NT	NT	04	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	24	26	35	40	03	03	04	09	4*01	4*01	NT	NT	03	03	01	02	02(DP202)	21
162	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
173	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	01	02	02(DP202)	21
189	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	NT	NT
190	24	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
192	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
195	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	01	02	02(DP202)	21
199	NT	NT	NT	NT	NT	NT	04	09	4*PRESENT	4*PRESENT	NT	NT	03	04	NT	NT	NT	NT
205	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
207	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03	03	03	03	NT	NT	NT	NT
213	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	01	02	02(DP202)	21
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
228	23	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
239	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	24	26	35	40	03	03	04	09	4*PRESENT	NP	03	03	03	03	NT	NT	NT	NT
255	24	26	35	40	NT	NT	04	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	24	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
262	24	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
265	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
266	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	01	02	02(DP202)	21
267	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
278	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
279	24	26	35	40	03	03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
282	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
285	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
286	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
290	24	26	35	40	NT	NT	04	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
293	24	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
294	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	NT	NT	NT	NT
305	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
309	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	03	02	02(DP202)	21
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	01	02	02(DP202)	21
323	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
328	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	NT	NT	NT	NT
329	24	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
334	24	26	35	40	03	03	04	09	NT	NT	03	03	03	03	01	02	02(DP202)	21
336	24	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT

**Table 9. Individual laboratory results for DNA # 1023 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
339	24	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
342	24	26	35	40	NT	NT	04	09	5*PRESENT	NT	NT	NT	03	03	NT	NT	NT	NT
343	24	26	35	40	NT	NT	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
714	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
805	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	NT	NT
1251	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
1647	24	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	03	03	03	03	01	02	02(DP202)	21
2063	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
2518	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
3438	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
3600	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	NT	NT
3625	24	26	35	40	03	03	04	09	4*01	NT	03	03	03	03	01	02	02(DP202)	21
3849	24	26	35	40	03	03	04	09	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
4420	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	NT	02	02(DP202)	21
4582	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
4585	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
4613	24	26	35	40	03	03	04	09	NT	NT	NT	NT	03	03	NT	NT	NT	NT
5451	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	NT	NT
8050	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
9221	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21
9222	24	26	NT	NT	NT	NT	04	09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	24	26	35	40	03	03	04	09	4*01	4*01	03	03	03	03	01	02	02(DP202)	21

**Table 10. Individual laboratory results for DNA # 1024 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:03:01	4*01:03N	02:01:01	03:01:01	03:02:01G	03:03:02	01:03	02:01:01	04:01:01G	05:01:01G
16	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:03:01	4*01:03:01:02N	02:01:01	03:01:01	03:02:01G	03:03:02	01:03:01	02:01:01	04:01:01G	05:01:01G
124	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:01:01	4*01:03:01N	02:01:01	03:01:01	03:02	03:03	01:03:01	02:01:01	04:01:01	05:01:01
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:06:01G	24:02:01G	48:01:01G	57:01:01G	06:02:01G	08:01:01G	04:04P	07:01P	4*01:01P	4*01:01P	02:01:01G	03:01:01G	03:02P	03:03P	NT	NT	04:01:01G	05:01:01G
188	02:06	24:02	48:01	57:01	06:02:01:01	08:01	04:04	07:01P	NT	NT	02:01	03:01:01:01	03:02:01	03:03:02:01	01:03	02:01:01:17	04:01P	05:01P
189	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	01:03	02:01	04:01:01G	05:01:01G
190	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01:01	08:01:01	04:04P	07:01P	NT	NT	NT	NT	03:02P	03:03:02:01	NT	NT	04:01:01	05:01:01
192	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01G	4*01:01:01G	4*01:03:01N	02:01:01	03:01:01	03:02:01G	03:03:02	01:03	02:01:01	04:01:01G	05:01:01G
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:03:01	4*01:03:01:02N	02:01:01	03:01:01	03:02:01	03:03:02	01:03:01	02:01:01	04:01:01	05:01:01
213	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03N	02:01	03:01	03:02	03:03	NT	NT	04:01P	05:01P
218	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	NT	NT	03:02	03:03	NT	NT	04:01	05:01
227	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03N	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
240	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01P	NT	NT	02:01	03:01	03:02P	03:03	NT	NT	04:01	05:01
258	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01:01	08:01:01	04:04:01	07:01:01	4*01:03:01	4*01:01:01G	02:01:01	03:01:01:01	03:02:01G	03:03:02:01	01:03:01	02:01:01	04:01:01	05:01:01
264	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:03:01	4*01:01:01G	02:01:01	03:01:01	03:02:01	03:03:02	01:03:01	02:01:01G	04:01:01G	05:01:01G
278	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03N	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
279	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	NT	NT	04:01P	05:01P
294	NT	NT	48:01P	57:01P	06:02P	08:01P	04:04P	07:01P	NT	4*01:03N	NT	NT	NT	NT	NT	NT	NT	NT
298	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:03:01	4*01:03:01N	02:01:01	03:01:01	03:02:01	03:03:02	01:03:01	02:01:01	04:01	05:01
316	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:01:01G	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
323	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
331	02:06:01:01	24:02:01:01	48:01:01	57:01:01	06:02:01:01	08:01:01:01	04:04:01	07:01:01	4*01:03:01	4*01:03:01N	02:01:01	03:01:01	03:02:01	03:03:02	01:03:01	02:01:01	04:01:01G	05:01:01G
341	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	NT	NT	04:01P	05:01P
403	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01G	NT	NT	NT	NT	03:02:01G	03:03:02	NT	NT	04:01:01G	05:01:01G
726	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03N	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
769	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03N	02:01	03:01	03:02	03:03	01:03	02:01	04:01P	05:01P
805	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01:01G	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
1189	02:06	24:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	05:01
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	05:01
3325	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	01:03	02:01	04:01:01G	05:01:01G
3410	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	NT	NT	03:02	03:03	NT	NT	04:01	05:01
3582	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:03:01	4*01:03:01:02N	02:01:01	03:01:01	03:02:01	03:03:02	01:03:01	02:01:01	04:01:01	05:01:01
3614	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
4551	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4582	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03N	02:01	03:01	03:02	03:03	01:03	02:01	04:01:01G	05:01:01G
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:03:01	4*01:03:01N	02:01:01	03:01:01	03:02:01	03:03:02	01:03:01	02:01:01	04:01:01	05:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:03:01	4*01:03:01N	02:01:01	03:01:01	03:02:01G	03:03:02	01:03:01	02:01:01	04:01:01	05:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Final Consensus based on High Resolution	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
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**Table 11. Individual laboratory results for DNA # 1024 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	05:01P
144	02:06:01G	24:02:01G	48:01:01G	57:01:01G	06:02:01G	08:01:01G	04:04P	07:01:01G	NT	NT	02:01:01G	03:01:01G	03:02:01G	03:03:02G	01:03:01G	02:01:01G	04:01:01G	05:01P
151	02:06:01G	24:02:01G	48:01:01G	57:01:01G	06:02:01G	08:01:01G	04:04	07:01:01G	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	04:01:01G	05:01:01G
155	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01:01G	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
162	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	04:04	07:01	NT	NT	02:01	03:01	03:02	03:03	NT	NT	04:01	05:01
176	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	02:01	03:01	03:02	03:03	NT	NT	04:01	05:01
193	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
207	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	04:04:01	07:01:01	4*01:01P	4*01:03N	02:01:01	03:01:01	03:02:01	03:03:02	01:03:01	02:01:01	04:01:01	05:01:01
209	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01:01G	03:01:01G	03:02	03:03	NT	NT	04:01P	05:01P
238	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	NT	NT	04:01	05:01
239	02:06	NT	48:01	57:01	06:02	NT	NT	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	NT	NT	04:01	05:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	04:04	07:01	NT	NT	02:01	03:01	03:02	03:03	NT	NT	NT	NT
267	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:01	4*01:03	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
280	02:06:01G	24:02:01G	48:01:01G	57:01:01G	06:02:01G	08:01	04:04P	07:01:01G	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	NT	NT
292	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
317	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:01	NP	01:03	03:01	03:02	03:03	01:03	02:01	04:01	05:01
402	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	NT	NT	03:02	03:03	NT	NT	04:01	05:01
714	02:06P	24:02P	48:01P	57:01P	06:02P	08:01P	04:04P	07:01P	NT	NT	NT	NT	03:02P	03:03P	NT	NT	04:01P	05:01P
1686	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01
3438	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	NT	NT	03:02	03:03	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	05:01P
3625	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	02:01	03:01	03:02	03:03	NT	NT	04:01	05:01
3849	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	02:06	NT	48:01	57:01	06:02	08:01	04:04	07:01	NT	NT	02:01	03:01	03:02	03:03	NT	02:01	NT	05:01
4545	02:06:01G	24:02:01G	48:01:01G	57:01:01G	06:02:01G	08:01:01G	04:04	07:01:01G	NT	NT	NT	NT	03:02:01G	03:03:02G	NT	NT	04:01:01G	05:01:01G
4613	02:06P	24:02P	48:01P	57:01P	06:02P	08:01P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	05:01P
5451	02:06:01	24:02:01	48:01:01	57:01:01	06:02:01	08:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:06	24:02	48:01	57:01	06:02	08:01	04:04	07:01	4*01:03	4*01:03:01:02N	02:01	03:01	03:02	03:03	01:03	02:01	04:01	05:01

**Table 12. Individual laboratory results for DNA # 1024 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
124	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
134	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	NT	NT	NT	NT
138	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
144	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	01	02	04(DP401)	05
147	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
148	02	24	48	57	06	08	04	07	NT	NT	NT	NT	03	03	NT	NT	NT	NT
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	02	24	48	57	NT	NT	04	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
162	02	24	48	57	06	08	04	07	NT	NT	NT	NT	03	03	NT	NT	NT	NT
173	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	01	02	04(DP401)	05
189	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	NT	NT
190	02	24	48	57	06	08	04	07	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
192	02	24	48	57	06	08	04	07	4*01	4*01	02	03	03	03	01	02	04(DP401)	05
195	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	01	02	04(DP401)	05
199	NT	NT	NT	NT	NT	NT	07	07	4*PRESENT	4*PRESENT	NT	NT	03	04	NT	NT	NT	NT
205	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02	03	03	03	NT	NT	NT	NT
213	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	01	02	04(DP401)	05
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
228	02	24	57	48	06	08	04	07	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
239	02	24	48	57	06	08	04	07	4*01	4*NULL	02	03	03	03	01	02	04(DP401)	05
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	02	24	48	57	06	08	04	07	4*PRESENT	NP	02	03	03	03	NT	NT	NT	NT
255	02	24	48	57	NT	NT	04	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	24	48	57	06	08	04	07	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
262	02	24	48	57	06	08	04	07	4*PRESENT	4*PRESENT	02	03	03	03	NT	NT	NT	NT
265	02	24	48	57	06	08	04	07	4*01	4*01	02	03	03	03	01	02	04(DP401)	05
266	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	01	02	04(DP401)	05
267	02	24	48	57	06	08	04	07	4*01	4*01	02	03	03	03	01	02	04(DP401)	05
278	02	24	48	57	06	08	04	07	4*01	4*01	02	03	03	03	01	02	04(DP401)	05
279	02	24	48	57	06	08	04	07	NT	NT	NT	NT	03	03	NT	NT	NT	NT
282	02	24	48	57	06	08	04	07	NT	NT	NT	NT	03	03	NT	NT	NT	NT
285	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	NT	NT	NT	NT
286	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	NT	NT	NT	NT
290	02	24	48	57	NT	NT	04	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	NT	NT	NT	NT
293	02	24	48	57	03	06	04	07	4*PRESENT	4*PRESENT	03	03	03	03	NT	NT	NT	NT
294	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	NT	NT	NT	NT
305	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	NT	NT	NT	NT
309	02	24	48	57	06	08	04	07	4*01	4*01	02	03	03	03	01	02	04(DP401)	05
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	01	02	04(DP401)	05
323	02	24	48	57	06	08	04	07	4*01	4*01	02	03	03	03	01	02	04(DP401)	05
328	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	NT	NT	NT	NT
329	02	24	48	57	06	08	04	07	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
334	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	01	02	04(DP401)	05
336	02	24	48	57	06	08	04	07	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT

**Table 12. Individual laboratory results for DNA # 1024 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
339	02	24	48	57	06	08	04	07	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
342	24	NT	48	57	NT	NT	04	07	NT	NT	NT	NT	03	03	NT	NT	NT	NT
343	24	24	48	57	NT	NT	04	07	NT	NT	NT	NT	03	03	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
714	02	24	48	57	06	08	04	07	NT	NT	NT	NT	03	03	NT	NT	NT	NT
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
732	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
805	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	NT	NT
1251	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
1647	02	24	48	57	06	08	04	07	4*PRESENT	4*NULL	02	03	03	03	01	02	04(DP401)	05
2063	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
2518	02	24	48	57	06	08	04	07	4*01	4*NULL	02	03	03	03	01	02	04(DP401)	05
3438	02	24	48	57	06	08	04	07	NT	NT	NT	NT	03	03	NT	NT	NT	NT
3600	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	NT	NT
3625	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
3849	02	24	48	57	06	08	04	07	4*PRESENT	4*PRESENT	NT	NT	03	03	NT	NT	NT	NT
4420	02	24	48	57	06	08	04	07	4*01	4*01	02	03	03	03	NT	02	NT	05
4582	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
4585	02	24	48	57	06	08	04	07	NT	NT	02	03	03	03	NT	NT	NT	NT
4613	02	24	48	57	06	08	04	07	NT	NT	NT	NT	03	03	NT	NT	NT	NT
5451	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	NT	NT
8050	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
9221	02	24	48	57	06	08	04	07	4*01	4*01N	02	03	03	03	01	02	04(DP401)	05
9222	02	24	NT	NT	NT	NT	04	07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	02	24	48	57	06	08	04	07	4*01	NG	02	03	03	03	01	02	04(DP401)	05



**Table 13. Individual laboratory results for DNA # 1025 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01	02:01:01G	03:01:01G	01:03:01	01:03:01	02:02:01G	20:01:01:01G
16	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01	02:01:01G	03:01:01G	01:03:01	01:03:01	02:02:01G	20:01:01:01G
124	02:01:01	30:02:01:01	18:01:01:01	44:02:01:01	05:01:01	05:01:01	03:01	04:01:01	3*02:02	4*01:03:01	03:03:01	05:01:01	02:01:01	03:01:01	01:03:01	01:03:01	02:02:01	20:01:01
134	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01P	04:01P	3*02:02P	4*01:01P	03:03:01	05:01:01	02:01:01G	03:01:01G	NT	NT	02:02:01	20:01:01
138	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
147	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	30:02:01G	18:01:01G	44:02:01G	05:01:01G	05:01:01G	03:01P	04:01P	3*02:02P	4*01:01P	03:01:01G	05:01:01G	02:01P	03:01P	NT	NT	02:02:01G	20:01:01
188	02:01	30:02:01:01	18:01	44:02	05:01	05:01	03:01P	04:01P	NT	NT	03:03	05:01:01:01	02:01:01:01	03:01	01:03P	01:03P	02:02	20:01
189	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
190	02:01:01	30:02:01:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01P	04:01P	NT	NT	NT	NT	02:01P	03:01P	NT	NT	02:02:01	20:01:01
192	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01G	04:01	3*02:02:01G	4*01:01:01G	03:03:01	05:01:01	02:01:01G	03:01:01G	01:03	01:03:01	02:02:01	20:01:01
195	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
205	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01	02:01:01	03:01:01	01:03:01	01:03:01	02:02:01	20:01:01
213	02:01	30:02	18:01	44:02	05:01	05:01	03:01P	04:01	NT	NT	03:03	05:01	02:01	03:01	NT	NT	02:02	20:01
218	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	03:03	05:01	02:01	03:01	NT	NT	02:02	20:01
227	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
240	02:01	30:02	18:01	44:02	05:01	05:01	03:01P	04:01P	NT	NT	03:03	05:01	02:01P	03:01P	NT	NT	02:02	20:01
258	02:01:01	30:02:01:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01:01	02:01:01G	03:01	01:03:01	01:03:01	02:02:01	20:01:01
264	02:01:01	30:02:01	18:01:01G	44:02:01G	05:01:01	05:01:01	03:01:01G	04:01:01	3*02:02:01G	4*01:03:01	03:03:01	05:01:01	02:01:01	03:01:01G	01:03:01	01:03:01	02:02:01	20:01:01
278	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
279	02:01	30:02	18:01	44:02	05:01	05:01	03:01P	04:01	NT	NT	03:03	05:01	02:01	03:01	NT	NT	02:02	20:01
294	02:01P	30:02	18:01	44:02	05:01	05:01	03:01P	04:01	NT	NT	03:03	05:01	02:01	03:01	NT	NT	02:02	20:01
298	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01	02:01:01	03:01:01	01:03:01	01:03:01	02:02:01	20:01:01
316	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
323	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	NT	NT	02:01	03:01	NT	NT	NT	NT
331	02:01:01:01	30:02:01:01	18:01:01:01	44:02:01:01	05:01:01:01	05:01:01:02	03:01:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01	02:01:01	03:01:01	01:03:01	01:03:01	02:02:01	20:01:01
341	02:01	30:02	18:01	44:02	05:01	05:01	03:01P	04:01	3*02:02P	4*01:03	03:03	05:01	02:01	03:01	NT	NT	02:02	20:01
403	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01G	04:01:01	NT	NT	NT	NT	02:01:01G	03:01:01G	NT	NT	02:02:01	20:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
805	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01:01G	03:01:01G	01:03	01:03	02:02	20:01
1189	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	20:01
2063	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01	02:01:01	03:01:01	01:03:01	01:03:01	02:02:01	20:01:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02	20:01
3325	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
3410	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	NT	NT	02:01	03:01	NT	NT	02:02	20:01
3582	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01	02:01:01	03:01	01:03:01	01:03:01	02:02:01G	20:01:01:01G
3614	02:01	30:02	18:01	44:02	05:01	05:01	03:01:01G	04:01	3*02:02	4*01:03	03:03	05:01	02:02	03:01	01:03	01:03	02:02	20:01
4551	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4582	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01	02:01:01	03:01:01	01:03:01	01:03:01	02:02:01	20:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01	04:01:01	3*02:02:01	4*01:03:01	03:03:01	05:01:01	02:01:01G	03:01:01G	01:03:01	01:03:01	02:02:01G	20:01:01:01G
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Final Consensus based on High Resolution	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
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**Table 14. Individual laboratory results for DNA # 1025 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02P	20:01P
144	02:01:01G	30:02:01G	18:01:01G	44:02:01G	05:01:01G	05:01:01G	03:01:01G	04:01P	NT	NT	03:01:01G	05:01:01G	02:01:01G	03:01:01G	01:03:01G	01:03:01G	02:02:01G	20:01P
151	02:01:01G	30:02:01G	18:01:01G	44:02:01G	05:01	05:01	03:01:01G	04:01	NT	NT	NT	NT	02:01:01G	03:01:01G	NT	NT	02:02	20:01
155	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	NT	NT	02:01	03:01	NT	NT	NT	NT
162	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	NT	NT	02:01	03:01	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	03:01	04:01	NT	NT	03:03	05:01	02:01	03:01	NT	NT	02:02	20:01
176	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	03:03	05:01	02:01	03:01	NT	NT	02:02	20:01
193	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	NT	NT	02:01	03:01	NT	NT	NT	NT
207	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	03:01:01	04:01:01	3*02:02	4*01:01P	03:03:01	05:01:01	02:01:01	03:01:01	01:03:01	01:03:01	02:02P	20:01P
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	02:01	30:02	18:01	44:02P	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	NT	NT	02:02	20:01
239	NT	30:02	18:12	NT	05:01	05:01	03:01	NT	3*02:02	4*01:03	03:03	05:01	02:01	NT	NT	NT	02:02	20:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:03	05:01	NT	NT	NT	NT	NT	NT
262	02:01	NT	NT	NT	NT	NT	03:01	04:01	NT	NT	03:03	05:01	02:01	03:01	NT	NT	NT	NT
267	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:01	03:02	05:01	02:01	03:01	01:03	01:03	02:02	20:01
280	02:01:01G	30:02:01G	18:01:01G	44:02:01G	05:01	05:01	03:01:01G	04:01P	NT	NT	NT	NT	02:01:01G	03:01:01G	NT	NT	NT	NT
292	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	44:02	05:01	NT	NT	02:01	03:01	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	03:01	05:01	NT	NT	NT	NT	NT	NT
313	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	NT	NT	02:01	03:01	NT	NT	NT	NT
317	02:01	30:02	18:01	44:02	05:01	05:01	03:04	04:01	3*02:01	4*01:01	03:02	05:01	02:01	03:01	01:03	01:03	02:02	20:01
402	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	NT	NT	02:01	03:01	NT	NT	02:02	20:01
714	02:01P	30:02P	18:01P	44:02P	05:01P	05:01P	03:01P	04:01P	NT	NT	NT	NT	02:01P	03:01P	NT	NT	02:02P	20:01P
1686	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01
3438	02:01	30:02	NT	44:02	05:01	05:01	03:01	04:01	NT	NT	NT	NT	02:01	03:01	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02P	20:01P
3625	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	NT	NT	03:03	05:01	02:01	03:01	NT	NT	02:02	20:01
3849	NT	NT	18:01:01G	44:02:01G	05:01:01G	05:01:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	02:01	30:02	18:01	NT	05:01	05:01	NT	04:01	3*02:02	NT	03:03	05:01	NT	NT	NT	NT	02:02	NT
4545	02:01:01G	30:02:01G	18:01:01G	44:02:01G	05:01	05:01	03:01:01G	04:01P	NT	NT	NT	NT	02:01:01G	03:01:01G	NT	NT	02:02	20:01
4613	02:01P	30:02P	18:01P	44:02P	05:01P	05:01P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	02:02P	20:01P
5451	02:01:01	30:02:01	18:01:01	44:02:01	05:01:01	05:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	30:02	18:01	44:02	05:01	05:01	03:01	04:01	3*02:02	4*01:03	03:03	05:01	02:01	03:01	01:03	01:03	02:02	20:01

**Table 15. Individual laboratory results for DNA # 1025 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
124	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
144	02	30	18	44	05	05	03	04	NT	NT	03	05	02	03	01	01	02(DP202)	20
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	02	30	18	44	05	05	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
152	02	30	18	44	NT	NT	03	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
162	02	30	18	44	05	05	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
173	02	30	18	44	05	05	03	04	NT	NT	03	05	02	03	01	01	02(DP202)	20
189	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	NT	NT
190	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
192	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
195	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
199	NT	NT	NT	NT	NT	NT	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
205	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
209	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
213	NT	NT	NT	NT	05	05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
227	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
228	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
239	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
242	02	30	18	44	05	NT	03	04	3*PRESENT	4*PRESENT	03	05	02	03	NT	NT	NT	NT
252	02	30	18	44	05	08	03	04	3*PRESENT	4*PRESENT	03	05	02	03	NT	NT	NT	NT
255	02	30	18	44	NT	NT	03	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
262	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	03	05	02	03	NT	NT	NT	NT
265	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
266	02	30	18	44	05	05	03	04	NT	NT	03	05	02	03	01	01	02(DP202)	20
267	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
278	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
279	02	30	18	44	05	05	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
282	02	30	18	44	05	05	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	30	18	44	NT	NT	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
290	02	30	18	44	NT	NT	03	04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	30	18	44	05	05	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
293	02	30	18	44	06	08	03	04	3*PRESENT	4*PRESENT	03	03	05	03	NT	NT	NT	NT
294	02	30	18	44	05	05	03	04	3*02	4*01	NT	NT	02	03	NT	NT	NT	NT
305	02	30	18	44	05	05	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
309	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
311	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	03	05	02	03	NT	NT	NT	NT
318	02	30	18	44	05	05	03	04	NT	NT	03	05	02	03	01	01	02(DP202)	20
323	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
328	02	30	18	44	05	05	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
329	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
334	02	30	18	44	05	05	03	04	NT	NT	03	05	02	03	01	01	02(DP202)	20
336	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT

**Table 15. Individual laboratory results for DNA # 1025 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
339	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
342	02	30	18	44	NT	NT	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
343	02	30	18	44	NT	NT	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
615	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
714	02	30	18	44	05	05	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
726	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
732	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
805	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	NT	NT
1251	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
1647	02	30	18	44	05	05	03	04	3*PRESENT	4*PRESENT	03	05	02	03	01	01	02(DP202)	20
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
3438	02	30	18	44	05	05	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
3600	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	NT	NT
3625	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
3849	02	30	18	44	05	05	03	04	3*02	4*PRESENT	NT	NT	02	03	NT	NT	NT	NT
4420	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	NT	NT	02(DP202)	NT
4582	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
4585	02	30	18	44	NT	NT	03	04	NT	NT	03	05	02	03	NT	NT	NT	NT
4613	02	30	18	44	05	05	03	04	NT	NT	NT	NT	02	03	NT	NT	NT	NT
5451	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	NT	NT
8050	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
9221	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	02	30	18	44	05	05	03	04	3*02	4*01	03	05	02	03	01	01	02(DP202)	20

**Table 16. Individual laboratory results for DNA # 1026 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
16	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
124	02:01:01	02:06	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
134	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01P	5*01:01P	NP	01:02:01	04:01:01	04:02:01G	06:02:01G	NT	NT	04:01:01	04:01:01
138	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
147	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
148	02:01:01G	02:06:01G	07:02:01G	40:02:01G	03:06:01	07:02:01G	08:02:01	15:01:01G	NT	NT	NT	NT	04:02:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
185	02:01:01G	02:06:01G	07:02:01G	40:02:01G	03:06:01	07:02:01G	08:02P	15:01P	5*01:01P	NP	01:02:01G	04:01:01G	04:02P	06:02P	NT	NT	04:01:01G	04:01:01G
188	02:01	02:06	07:02	40:02	03:06:01	07:02	08:02	15:01P	NT	NT	01:02	04:01	04:02:01:04	06:02:01:01	01:03P	01:03P	04:01	04:01
189	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
190	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01P	NT	NT	NT	NT	04:02	06:02	NT	NT	04:01:01	04:01:01
192	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01G	5*01:01:01G	NP	01:02:01	04:01:01	04:02	06:02	01:03:01G	01:03:01G	04:01:01	04:01:01
195	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
205	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
213	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	01:02	04:01	04:02	06:02	NT	NT	04:01	04:01
218	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	NT	NT	04:02	06:02	NT	NT	04:01	04:01
227	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
240	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01P	NT	NT	01:02	04:01	04:02	06:02	NT	NT	04:01	04:01
258	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01G	01:03:01G	04:01:01	04:01:01
264	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
278	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NT	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
279	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	NT	NT	04:01	04:01
294	02:01P	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NP	01:02	04:01	04:02	06:02	NT	NT	04:01	04:01
298	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
316	02:01	02:06	07:02	40:02	03:06:01	07:02	08:02	15:01	5*01:01	NT	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
323	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT
331	02:01:01:01	02:06:01:01	07:02:01:01	40:02:01	03:06:01	07:02:01:03	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
341	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	5*01:01	01:02	04:01	04:02	06:02	NT	NT	04:01	04:01
403	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01G	NT	NT	NT	NT	04:02	06:02	NT	NT	04:01:01	04:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01P	04:01P
805	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
1189	02:01	02:06	07:02	40:02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	04:01
2063	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	04:01
3325	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
3410	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	NT	NT	04:02	06:02	NT	NT	04:01	04:01
3582	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
3614	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
4551	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4582	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
4585	NT	NT	NT	NT	03:06	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Final Consensus based on High Resolution	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
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**Table 17. Individual laboratory results for DNA # 1026 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
144	02:01:01G	02:06:01G	07:02:01G	40:02:01G	03:06	07:02:01G	08:02P	15:01:01G	NT	NT	01:02:01G	04:01:01G	04:02:01G	06:02:01G	01:03:01G	01:03:01G	04:01:01G	04:01:01G
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
155	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT
162	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	NT	NT	04:02	06:02:01G	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	08:02	15:01	NT	NT	01:02	04:01	04:02	06:02	NT	NT	04:01	04:01
176	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	01:02	04:01	04:02	06:02	NT	NT	04:01	04:01
193	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT
207	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	08:02:01	15:01:01	5*01:01:01	NP	01:02:01	04:01:01	04:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	02:01P	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	NT	NT	04:01	04:01
239	NT	02:06	07:02	NT	NT	07:02	08:02	NT	NT	NT	01:02	04:01	04:02	NT	NT	NT	04:01	04:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	02:01	02:06	07:02	40:02	03:04	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
280	02:01:01G	02:06:01G	07:02:01G	40:02:01G	03:06	07:02	08:02	15:01:01G	NT	NT	NT	NT	04:02:01G	06:02:01G	NT	NT	NT	NT
292	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT
317	02:01	02:06	07:02	40:02	03:02	07:01	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:02
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
714	02:01P	02:06P	07:02P	40:02P	03:06	07:02P	08:02P	15:01P	NT	NT	NT	NT	04:02P	06:02P	NT	NT	04:01P	04:01P
1686	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NT	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01
3438	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	NT	NT	04:02	06:02	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
3625	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	NT	NT	01:02	04:01	04:02	06:02	NT	NT	04:01	04:01
3849	NT	NT	NT	NT	03:06:01	07:02:01G	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	02:01	02:06	07:02	40:02	NT	07:02	NT	NT	5*01:01	5*01:01	NT	04:01	04:02	NT	NT	NT	NT	NT
4545	02:01:01G	02:06:01G	07:02:01G	40:02:01G	03:06	07:02	08:02	15:01:01G	NT	NT	NT	NT	04:02:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
4613	02:01P	02:06P	07:02P	40:02P	03:06	07:02P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
5451	02:01:01	02:06:01	07:02:01	40:02:01	03:06:01	07:02:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	02:01	02:06	07:02	40:02	03:06	07:02	08:02	15:01	5*01:01	NP	01:02	04:01	04:02	06:02	01:03	01:03	04:01	04:01

**Table 18. Individual laboratory results for DNA # 1026 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
124	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
144	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	01	01	04(DP401)	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	02	02	07	40	03	07	08	15	NT	NT	NT	NT	04	06	NT	NT	04(DP401)	04(DP401)
152	02	02	07	40	NT	NT	08	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	39
162	02	02	07	40	03	07	08	15	NT	NT	NT	NT	04	06	NT	NT	NT	NT
173	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	01	01	04(DP401)	04(DP401)
189	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	NT	NT
190	02	02	07	40	03	07	08	15	5*PRESENT	NP	NT	NT	04	06	NT	NT	NT	NT
192	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
195	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
199	NT	NT	NT	NT	NT	NT	08	15	5*PRESENT	5*PRESENT	NT	NT	04	06	NT	NT	NT	NT
205	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
207	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
209	02	02	07	40	03	07	08	15	5*PRESENT	NP	NT	NT	04	06	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
228	02	02	07	40	03	07	08	15	5*PRESENT	NP	NT	NT	04	06	NT	NT	NT	NT
239	02	02	07	40	03	07	08	15	5*01	NT	01	04	04	06	01	01	04(DP401)	04(DP401)
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	02	02	07	40	03	07	08	15	5*PRESENT	NP	01	04	04	06	NT	NT	NT	NT
255	02	02	07	40	NT	NT	08	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	02	02	07	40	03	07	08	15	5*PRESENT	NP	NT	NT	04	06	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
266	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	01	01	04(DP401)	04(DP401)
267	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
278	02	02	07	40	03	07	08	15	5*01	NT	01	04	04	06	01	01	04(DP401)	04(DP401)
279	NT	NT	NT	NT	NT	NT	08	15	NT	NT	NT	NT	04	06	NT	NT	NT	NT
282	02	02	07	40	03	07	08	15	NT	NT	NT	NT	04	06	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	NT	NT	NT	NT
290	02	02	07	40	NT	NT	08	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	NT	NT	NT	NT
293	02	02	07	40	03	07	08	15	5*PRESENT	NP	01	04	04	06	NT	NT	NT	NT
294	02	02	07	40	03	07	08	15	5*01	NP	NT	NT	04	06	NT	NT	04(DP401)	04(DP401)
305	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	NT	NT	NT	NT
309	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	01	01	04(DP401)	04(DP401)
323	02	02	07	40	03	07	08	15	NT	NT	NT	NT	04	06	NT	NT	NT	NT
328	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	NT	NT	NT	NT
329	02	02	07	40	03	07	08	15	5*PRESENT	NP	NT	NT	04	06	NT	NT	NT	NT
334	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	01	01	04(DP401)	04(DP401)
336	02	02	07	40	03	07	08	15	5*PRESENT	NP	NT	NT	04	06	NT	NT	NT	NT

**Table 18. Individual laboratory results for DNA # 1026 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
339	02	02	07	40	03	07	08	15	5*PRESENT	NP	NT	NT	04	06	NT	NT	NT	NT
342	02	NT	07	40	NT	NT	08	15	5*PRESENT	NT	NT	NT	04	06	NT	NT	NT	NT
343	02	02	07	40	NT	NT	08	15	NT	NT	NT	NT	04	06	NT	NT	NT	NT
402	02	02	07	40	03	07	08	15	NT	NT	NT	NT	04	06	NT	NT	04(DP401)	04(DP401)
615	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
714	02	02	07	40	03	07	08	15	NT	NT	NT	NT	04	06	NT	NT	NT	NT
726	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
732	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
805	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	NT	NT
1251	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
1647	02	02	07	40	03	07	08	15	5*PRESENT	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
3438	02	02	07	40	03	07	08	15	NT	NT	NT	NT	04	06	NT	NT	NT	NT
3600	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	NT	NT
3625	02	02	07	40	03	07	08	15	5*01	NT	01	04	04	06	01	01	04(DP401)	04(DP401)
3849	02	02	07	40	03	07	08	15	5*PRESENT	NP	NT	NT	04	06	NT	NT	NT	NT
4420	02	02	07	40	03	07	08	15	5*01	5*01	01	04	04	06	NT	NT	NT	NT
4582	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
4585	02	02	07	40	03	07	08	15	NT	NT	01	04	04	06	NT	NT	NT	NT
4613	02	02	07	40	03	07	08	15	NT	NT	NT	NT	04	06	NT	NT	NT	NT
5451	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	NT	NT
8050	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
9221	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)
9222	NT																	
<b>Final Consensus</b>	02	02	07	40	03	07	08	15	5*01	NP	01	04	04	06	01	01	04(DP401)	04(DP401)



**Table 19. Individual laboratory results for DNA # 1027 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01	5*01:01:01	01:02:01	02:01:01	02:01:01G	06:02:01	01:03	01:03:01	04:01:01	04:01:01
16	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01:01	5*01:01:01	01:02:01	02:01:01	02:01:01G	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
124	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	24:02:01G	29:02:01:01	07:02:01G	44:03:01G	07:02:01G	16:01:01:01	07:01:01G	15:01:01G	NT	NT	NT	NT	02:02	06:02:01G	NT	NT	04:01:01G	04:01:01G
158	24:02:01	29:02:01:01	07:02:01	44:03:01	07:02:01	16:01:01:01	07:01:01G	15:01:01G	4*01:01:01:01	5*01:01:01G	01:02:01	02:01:01	02:01:01G	06:02:01G	01:03:01G	01:03:01G	04:01:01	04:01:01
185	24:02:01G	29:02:01G	07:02:01G	44:03:01G	07:02:01G	16:01:01G	07:01P	15:01P	4*01:01P	5*01:01P	01:02:01G	02:01:01G	02:01P	06:02P	NT	NT	04:01:01G	04:01:01G
188	24:02	29:02:01:01	07:02	44:03	07:02	16:01:01:01	07:01P	15:01P	NT	NT	01:02	02:01	02:02:01:01	06:02:01:01	01:03P	01:03P	04:01	04:01
189	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
190	24:02:01	29:02:01:01	07:02:01	44:03:01	07:02:01	16:01:01:01	07:01P	15:01P	NT	NT	NT	NT	02:01P	06:02	NT	NT	04:01:01	04:01:01
192	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01G	15:01:01G	4*01:01:01	5*01:01:01G	01:02:01	02:01:01	02:01:01G	06:02	01:03:01	01:03:01G	04:01:01	04:01:01
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01G	5*01:01:01	01:02:01	02:01:01	02:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
213	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	01:02	02:01	02:02	06:02	NT	NT	04:01	04:01
218	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	NT	NT	02:02	06:02	NT	NT	04:01	04:01
227	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
240	24:02P	29:02	07:02P	44:03P	07:02P	16:01P	07:01P	15:01P	NT	NT	01:02	02:01	02:01P	06:02P	NT	NT	04:01P	04:01P
258	24:02:01	29:02:01:01	07:02:01	44:03:01	07:02:01	16:01:01:01	07:01:01	15:01:01	4*01:01:01:01	5*01:01:01	01:02:01	02:01:01	02:01:01G	06:02:01	01:03:01:04	01:03:01G	04:01:01	04:01:01
264	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01	5*01:01:01	01:02:01	02:01:01	02:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
278	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
279	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	01:02	02:01	02:02	06:02	NT	NT	04:01	04:01
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01	5*01:01:01	01:02:01	02:01:01	02:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
316	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
323	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
331	24:02:01:01	29:02:01:01	07:02:01:01	44:03:01	07:02:01:03	16:01:01:01	07:01:01	15:01:01	4*01:01:01	5*01:01:01	01:02:01	02:01:01	02:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
341	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	NT	NT	04:01	04:01
403	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01G	15:01:01G	NT	NT	NT	NT	02:01:01G	06:02	NT	NT	04:01:01	04:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01P	04:01P
805	24:02	29:02	07:02	44:03	07:02	16:01	07:01:01G	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
1189	24:02	29:02	07:02	44:03	07:02	16:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	24:02:01G	29:02:01G	07:02:01G	44:03:01G	07:02:01G	16:01:01G	07:01:01G	15:01:01G	4*01:01:01G	5*01:01:01G	NT	NT	02:01:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
2063	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01	5*01:01:01	01:02:01	02:01:01	02:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	04:01
3325	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
3410	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	NT	NT	02:02	06:02	NT	NT	04:01	04:01
3582	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01	5*01:01:01	01:02:01	02:01:01	02:02	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
3614	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
4551	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4582	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01	5*01:01:01	01:02:01	02:01:01	02:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01	5*01:01:01	01:02:01	02:01:01	02:02	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Final Consensus based on High Resolution	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
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**Table 20. Individual laboratory results for DNA # 1027 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
144	24:02:01G	29:02:01G	07:02:01G	44:03:01G	07:02:01G	16:01:01G	07:01:01G	15:01:01G	NT	NT	01:02:01G	02:01:01G	02:01:01G	06:02:01G	01:03:01G	01:03:01G	04:01:01G	04:01:01G
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
155	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	NT	NT	02:02	06:02	NT	NT	NT	NT
162	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	NT	NT	02:02	06:02:01G	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	07:01	15:01	NT	NT	01:02	02:01	02:02	06:02	NT	NT	04:01	04:01
176	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	01:02	02:01	02:02	06:02	NT	NT	04:01	04:01
193	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	NT	NT	02:02	06:02	NT	NT	NT	NT
207	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	07:01:01	15:01:01	4*01:01:01	5*01:01:01	01:02:01	02:01:01	02:02:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	NT	NT	04:01P	04:01P
239	NT	29:02	07:02	44:03	NT	16:01	07:01	NT	4*01:01	NT	01:02	02:01	02:02	06:02	NT	NT	04:01	04:01
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	24:02	29:01	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
280	24:02:01G	29:02:01G	07:02:01G	44:03:01G	07:02	16:01	07:01:01G	15:01:01G	NT	NT	NT	NT	02:01:01G	06:02:01G	NT	NT	NT	NT
292	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	NT	NT	02:02	06:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
313	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	NT	NT	02:02	06:02	NT	NT	NT	NT
317	24:02	29:01	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	01:03	02:02	06:02	01:03	01:03	04:01	04:01
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
714	24:02P	29:02P	07:02P	44:03P	07:02P	16:01P	07:01P	15:01P	NT	NT	NT	NT	02:01P	06:02P	NT	NT	04:01P	04:01P
1686	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01
3438	24:02	NT	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	NT	NT	02:02	06:02	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
3625	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	NT	NT	NT	NT	02:02	06:02	NT	NT	04:01	04:01
3849	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	NT	29:02	07:02	44:03	07:02	16:01	07:01	NT	NT	5*01:01	NT	02:01	NT	NT	NT	NT	NT	NT
4545	24:02:01G	29:02:01G	07:02:01G	44:03:01G	07:02	16:01	07:01:01G	15:01:01G	NT	NT	NT	NT	02:01:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
4613	24:02P	29:02P	07:02P	44:03P	07:02P	16:01P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
5451	24:02:01	29:02:01	07:02:01	44:03:01	07:02:01	16:01:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Final Consensus	24:02	29:02	07:02	44:03	07:02	16:01	07:01	15:01	4*01:01	5*01:01	01:02	02:01	02:02	06:02	01:03	01:03	04:01	04:01

**Table 21. Individual laboratory results for DNA # 1027 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
124	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
144	24	29	07	44	07	16	07	15	NT	NT	01	02	02	06	01	01	04(DP401)	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	24	29	07	44	07	16	07	15	NT	NT	NT	NT	02	06	NT	NT	04(DP401)	04(DP401)
152	24	29	07	44	NT	NT	07	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	24	29	07	44	07	16	07	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
173	24	29	07	44	07	16	07	15	NT	NT	01	02	02	06	01	01	04(DP401)	04(DP401)
189	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	NT	NT
190	24	29	07	44	07	16	07	15	4*PRESENT 5*PRESENT		NT	NT	02	06	NT	NT	NT	NT
192	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
195	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
199	NT	NT	NT	NT	NT	NT	07	15	4*PRESENT 5*PRESENT		NT	NT	02	06	NT	NT	NT	NT
205	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
228	24	29	07	44	07	16	07	15	4*PRESENT 5*PRESENT		NT	NT	02	06	NT	NT	NT	NT
239	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
252	24	29	07	44	07	12	07	15	4*PRESENT 5*PRESENT		01	02	02	06	NT	NT	NT	NT
255	24	29	07	44	NT	NT	07	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	24	29	07	44	07	16	07	15	4*PRESENT 5*PRESENT		NT	NT	02	06	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
266	24	29	07	44	07	16	07	15			01	02	02	06	01	01	04(DP401)	04(DP401)
267	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
278	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
279	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
282	24	29	07	44	07	16	07	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	24	29	07	44	07	16	07	15	NT	NT	01	02	02	06	NT	NT	NT	NT
290	24	29	07	44	NT	NT	07	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	24	29	07	44	07	16	07	15	NT	NT	01	02	02	06	NT	NT	NT	NT
293	24	29	07	44	07	16	07	15	4*PRESENT 5*PRESENT		01	02	02	06	NT	NT	NT	NT
294	24	29	07	44	07	16	07	15	NT	NT	NT	NT	02	06	NT	NT	04(DP401)	04(DP401)
305	24	29	07	44	07	16	07	15	NT	NT	01	02	02	06	NT	NT	NT	NT
309	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
318	24	29	07	44	07	16	07	15	NT	NT	01	02	02	06	01	01	04(DP401)	04(DP401)
323	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
328	24	29	07	44	07	16	07	15	NT	NT	01	02	02	06	NT	NT	NT	NT
329	24	29	07	44	07	16	07	15	4*PRESENT 5*PRESENT		NT	NT	02	06	NT	NT	NT	NT
334	24	29	07	44	07	16	07	15	NT	NT	01	02	02	06	01	01	04(DP401)	04(DP401)
336	24	29	07	44	07	16	07	15	4*PRESENT 5*PRESENT		NT	NT	02	06	NT	NT	NT	NT

**Table 21. Individual laboratory results for DNA # 1027 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
339	NT	NT	NT	NT	NT	NT	07	15	4*PRESENT	5*PRESENT	NT	NT	02	06	NT	NT	NT	NT
342	24	29	07	44	NT	NT	07	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
343	24	29	07	44	NT	NT	07	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
402	24	29	07	44	07	16	07	15					02	06			04(DP401)	04(DP401)
615	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
714	24	29	07	44	07	16	07	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
726	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
732	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
805	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	NT	NT
1251	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
1647	24	29	07	44	07	16	07	15	4*PRESENT	5*PRESENT	01	02	02	06	01	01	04(DP401)	04(DP401)
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
3438	24	29	07	44	07	16	07	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
3600	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	NT	NT
3625	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
3849	24	29	07	44	07	16	07	15	4*PRESENT	5*PRESENT	NT	NT	02	06	NT	NT	NT	NT
4420	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	NT	NT	NT	NT
4582	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
4585	24	29	07	44	07	16	07	15	NT	NT	01	02	02	06	NT	NT	NT	NT
4613	24	29	07	44	07	16	07	15	NT	NT	NT	NT	02	06	NT	NT	NT	NT
5451	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	NT	NT
8050	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
9221	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)
9222	NT																	
<b>Final Consensus</b>	24	29	07	44	07	16	07	15	4*01	5*01	01	02	02	06	01	01	04(DP401)	04(DP401)

**Table 22. Individual laboratory results for DNA # 1028 using Next Generation Sequencing**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
7	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05	03:01	06:02:01	01:03	01:03:01	04:01:01	04:01:01
16	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01G	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
124	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	03:01:01:01	33:01:01:01	07:02:01G	14:02:01:01	07:02:01G	08:02:01G	11:04:01	15:01:01G	NT	NT	NT	NT	03:01:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
158	03:01:01:01	33:01:01:01	07:02:01	14:02:01:01	07:02:01	08:02:01	11:04:01	15:01:01G	3*02:02:01	5*01:01:01G	01:02:01	05:05:01	03:01:01G	06:02	01:03:01G	01:03:01G	04:01:01	04:01:01
185	03:01:01G	33:01:01G	07:02:01G	14:02:01G	07:02:01G	08:02:01G	11:04P	15:01P	3*02:02P	5*01:01P	01:02:01G	05:01:01G	03:01P	06:02P	NT	NT	04:01:01G	04:01:01G
188	03:01:01:01	33:01:01:01	07:02	14:02:01:01	07:02	08:02	11:04:01	15:01P	NT	NT	01:02	05:05	03:01:01:02	06:02:01:01	01:03P	01:03P	04:01	04:01
189	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
190	03:01:01:01	33:01:01:01	07:02:01	14:02:01:01	07:02:01	08:02:01	11:04:01	15:01P	NT	NT	NT	NT	03:01P	06:02	NT	NT	04:01:01	04:01:01
192	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01G	3*02:02:01	5*01:01:01G	01:02:01	05:05:01	03:01:01G	06:02	01:03:01G	01:03:01	04:01:01	04:01:01
195	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
205	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
213	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	01:02	05:05	03:01	06:02	NT	NT	04:01	04:01
218	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01	04:01
227	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
240	03:01P	33:01P	07:02	14:02P	07:02P	08:02	11:04	15:01P	NT	NT	01:02	05:01P	03:01P	06:02	NT	NT	04:01P	04:01P
258	03:01:01:01	33:01:01:01	07:02:01	14:02:01:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01G	06:02:01	01:03:01:01	01:03:01G	04:01:01	04:01:01
264	03:01:01	33:01:01	07:02:01G	14:02:01G	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01G	5*01:01:01	01:02:01	05:05:01	03:01:01G	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
278	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
279	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
294	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
298	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
316	03:01	33:01	07:02	14:02	07:02:01G	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
323	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
331	03:01:01:01	33:01:01:01	07:02:01:01	14:02:01:01	07:02:01:03	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
341	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02P	5*01:01	01:02	05:05	03:01	06:02	NT	NT	04:01	04:01
403	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01G	NT	NT	NT	NT	03:01:01G	06:02	NT	NT	04:01:01	04:01:01
726	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
769	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01P	04:01P
805	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
1189	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1251	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
2063	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
2518	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01	04:01
3325	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
3410	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	04:01	04:01
3582	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
3614	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
4551	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4582	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
4585	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
6051	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
14982	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
45452	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Final Consensus based on High Resolution	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
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**Table 23. Individual laboratory results for DNA # 1028 High Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
144	03:01:01G	33:01:01G	07:02:01G	14:02:01G	07:02:01G	08:02:01G	11:04:01G	15:01:01G	NT	NT	01:02:01G	05:05	03:01:01G	06:02:01G	01:03:01G	01:03:01G	04:01:01G	04:01:01G
151	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
155	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	NT	NT	03:01	06:02:01G	NT	NT	NT	NT
173	NT	NT	NT	NT	NT	NT	11:04	15:01	NT	NT	01:02	05:05	03:01	06:02	NT	NT	04:01	04:01
176	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	01:02	05:05	03:01	06:02	NT	NT	04:01	04:01
193	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
207	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	11:04:01	15:01:01	3*02:02:01	5*01:01:01	01:02:01	05:05:01	03:01:01	06:02:01	01:03:01	01:03:01	04:01:01	04:01:01
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
238	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	NT	NT	04:01P	04:01P
239	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	05:05	NT	NT	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
267	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
280	03:01:01G	33:01:01G	07:02:01G	14:02:01G	07:02:01G	08:02:01G	11:04	15:01:01G	NT	NT	NT	NT	03:01:01G	06:02:01G	NT	NT	NT	NT
292	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
311	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	01:02	05:05	NT	NT	NT	NT	NT	NT
313	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
317	03:01	33:01	07:02	14:01	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:10	03:01	06:02	01:03	01:03	04:01	04:01
402	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
714	03:01P	33:01P	07:02P	14:02P	07:02P	08:02P	11:04P	15:01P	NT	NT	NT	NT	03:01P	06:02P	NT	NT	04:01P	04:01P
1686	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01
3438	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	NT	NT	03:01	06:02	NT	NT	NT	NT
3600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
3625	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	NT	NT	01:02	05:05	03:01	06:02	NT	NT	04:01	04:01
3849	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4420	03:01	33:01	07:02	14:02	07:02	NT	NT	NT	3*02:02	5*01:01	NT	05:05	NT	NT	NT	NT	NT	NT
4545	03:01:01G	33:01:01G	07:02:01G	14:02:01G	07:02	08:02	11:04	15:01:01G	NT	NT	NT	NT	03:01:01G	06:02:01G	NT	NT	04:01:01G	04:01:01G
4613	03:01P	33:01P	07:02P	14:02P	07:02P	08:02P	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	04:01P	04:01P
5451	03:01:01	33:01:01	07:02:01	14:02:01	07:02:01	08:02:01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	03:01	33:01	07:02	14:02	07:02	08:02	11:04	15:01	3*02:02	5*01:01	01:02	05:05	03:01	06:02	01:03	01:03	04:01	04:01

**Table 24. Individual laboratory results for DNA # 1028 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
80	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
124	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
134	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
138	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
144	03	33	07	14	07	08	11	15	NT	NT	01	05	03	06	01	01	04(DP401)	04(DP401)
147	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
148	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
151	03	33	07	14	07	08	11	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	04(DP401)
152	03	33	07	14	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
158	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
162	03	33	07	14	07	08	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
173	03	33	07	14	07	08	11	15	NT	NT	01	05	03	06	01	01	04(DP401)	04(DP401)
189	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	NT	NT
190	03	33	07	14	07	08	11	15	3*PRESENT 5*PRESENT		NT	NT	03	06	NT	NT	NT	NT
192	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
195	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
199	NT	NT	NT	NT	NT	NT	11	15	3*PRESENT 5*PRESENT		NT	NT	03	06	NT	NT	NT	NT
205	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
207	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
209	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
213	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
215	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
227	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
228	03	33	07	14	07	08	11	15	3*PRESENT 5*PRESENT		NT	NT	03	06	NT	NT	NT	NT
239	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
242	03	33	07	14	07	08	11	15	3*PRESENT 5*PRESENT		01	05	03	06	NT	NT	NT	NT
252	03	33	07	14	07	08	11	15	3*PRESENT 5*PRESENT		01	05	03	06	NT	NT	NT	NT
255	03	33	07	14	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
260	03	33	07	14	07	08	11	15	3*PRESENT 5*PRESENT		NT	NT	03	06	NT	NT	NT	NT
262	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
265	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
266	03	33	07	14	07	08	11	15	NT	NT	01	05	03	06	01	01	04(DP401)	04(DP401)
267	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
278	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
279	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
282	03	33	07	14	07	08	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
285	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
286	03	33	07	14	07	08	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
290	03	33	07	14	NT	NT	11	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
292	03	33	07	14	07	08	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
293	03	33	07	14	07	08	11	15	3*PRESENT 5*PRESENT		01	05	03	06	NT	NT	NT	NT
294	03	33	07	14	07	08	11	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	04(DP401)
305	03	33	07	14	07	08	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
309	03	33	07	14	07	08	11	15	3*02	4*01	01	05	03	06	01	01	04(DP401)	04(DP401)
311	03	33	07	14	07	08	11	15	3*PRESENT 5*PRESENT		01	05	03	06	NT	NT	NT	NT
318	03	33	07	14	07	08	11	15	NT	NT	01	05	03	06	01	01	04(DP401)	04(DP401)
323	03	33	07	14	07	08	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
328	03	33	NT	NT	07	05	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
329	03	33	07	14	07	08	11	15	3*PRESENT 5*PRESENT		NT	NT	03	06	NT	NT	NT	NT
334	03	33	07	14	07	08	11	15	NT	NT	01	05	03	06	01	01	04(DP401)	04(DP401)
336	03	33	07	14	07	08	11	15	3*PRESENT 5*PRESENT		NT	NT	03	06	NT	NT	NT	NT

**Table 24. Individual laboratory results for DNA # 1028 Low Resolution**

CENTER	A		B		C		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
339	NT	NT	NT	NT	NT	NT	11	15	3*PRESENT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
342	03	33	07	14	NT	NT	11	15	NT	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
343	03	33	07	14	NT	NT	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
402	03	33	07	14	07	08	11	15	NT	NT	NT	NT	03	06	NT	NT	04(DP401)	04(DP401)
615	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
714	03	33	07	14	07	08	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
726	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
732	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
805	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	NT	NT
1251	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1647	03	33	07	14	07	08	11	15	3*PRESENT	5*PRESENT	01	05	03	06	01	01	04(DP401)	04(DP401)
2063	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2518	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
3438	03	33	07	14	07	08	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
3600	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	NT	NT
3625	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
3849	03	33	07	14	07	08	11	15	3*02	5*PRESENT	NT	NT	03	06	NT	NT	NT	NT
4420	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	NT	NT	NT	NT
4582	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
4585	03	33	07	14	07	08	11	15	NT	NT	01	05	03	06	NT	NT	NT	NT
4613	03	33	07	14	07	08	11	15	NT	NT	NT	NT	03	06	NT	NT	NT	NT
5451	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	NT	NT
8050	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
9221	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)
9222	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
<b>Final Consensus</b>	03	33	07	14	07	08	11	15	3*02	5*01	01	05	03	06	01	01	04(DP401)	04(DP401)



## Participants and Methods High Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
7	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
16	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
80									SSO-OL rtPCR-LS
124	NGS-INH-OL	NGS-INH-OL	NGS-INH-OL	NGS-INH-OL	NGS-INH-OL	NGS-INH-OL	NGS-INH-OL	NGS-INH-OL	NGS-INH-OL
134	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL		NGS-GIL
138	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
144	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG		SSO-IMM	SBT-TBG	SSO-IMM	SSO-IMM
147	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
148	NGS-GD	NGS-GD	NGS-GD	NGS-GD			NGS-GD		NGS-GD
151	SBT-LT	SBT-LT	SBT-LT	SBT-LT			SBT-LT		SBT-LT
155	SBT-INH	SBT-INH	SBT-INH	SBT-INH			SBT-INH		
158	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD	NGS-GD
162	SBT-BS	SBT-BS	SBT-BS	SBT-BS	SBT-BS		SBT-BS		
173	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL		SSO-LUM-OL SSP-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL SSP-OL
176	SBT-INH	SBT-INH	SBT-INH	SBT-INH		SBT-INH	SBT-INH		SBT-INH
185	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH		NGS-INH
188	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL SBT-ACT		NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL SSP-OLE
189	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE
190	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
192	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH	NGS-GIL-INH
193	SBT-SC SSO-LUM-OL	SBT-SC SSO-LUM-OL	SBT-SC SSO-LUM-OL	SBT-SC SSO-LUM-OL			SBT-SC SSO-LUM-OL		
195	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
205	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
207					SSP-OLE				
209	SBT-GD SSO-OL SSP-OLE	SBT-GD SSO-OL SSP-OLE	SBT-GD SSO-OL SSP-OLE	SBT-GD SSO-OL SSP-OLE	SBT-GD SSP-OLE	SBT-GD SSP-OLE	SBT-GD SSP-OLE		SBT-GD SSO-OL SSP-OLE
213	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	NGS-OMX	NGS-OMX		NGS-OMX SSP-OLE
218	NGS-INH	NGS-INH	NGS-INH	NGS-INH			NGS-INH		NGS-INH
227	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
238	SSO-HT	SSO-HT	SSO-HT	SSO-HT	SSP-OLE	SSO-HT SSP-OLE	SSO-HT SSP-OLE		SSO-HA-HT
239	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB		rtPCR-LB
240	NGS-GD SBT-GD SSO-OL-TEP SSP-OL	NGS-GD SBT-GD SSO-OL SSP-OL	NGS-GD SBT-GD SSO-OL SSP-OL	NGS-GD SBT-GD SSO-OL SSP-OL		NGS-GD SSO-OL SSP-OL	NGS-GD SBT-GD SSO-OL SSP-OL		NGS-GD SSO-OL
242						SSP-OLE			
258	NGS-GD SSO-LC	NGS-GD SSO-LC	NGS-GD SSO-LC	NGS-GD SSO-LC	NGS-GD SSO-LC	NGS-GD SSO-LC	NGS-GD-LC SSO-LC	NGS-GD SSO-LC	NGS-GD SSO-LC
262	SSP-OLE			SSP-OLE		SSP-OLE	SSP-OLE-PRO		
264	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG	NGS-SG
267	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL
279	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	SSP-OLE	NGS-OMX SSP-OLE	NGS-OMX		NGS-OMX SSP-OLE
280	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG			SBT-TBG		
292	SSO-OL	SSO-OL	SSO-OL	SSO-OL			SSO-OL		

**Participants and Methods High Resolution**

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
294	NGS-OMX	NGS-OMX SBT-INH	NGS-OMX SBT-INH	NGS-OMX SBT-INH	SSP-OLE	NGS-OMX	NGS-OMX		NGS-OMX
298	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17	NGS-OL-Tx17
311						SSP-OLE			
313	SBT-TBG	SBT-TBG	SBT-TBG	SBT-TBG			SBT-TBG		
316	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
317	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL
323	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX			NGS-OMX		
331	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
341	NGS-OMX SBT-INH	NGS-OMX SBT-INH	NGS-OMX SBT-INH	NGS-OMX SBT-INH	NGS-OMX SSP-OL-OLE	NGS-IL-OMX	NGS-OMX SSP-OLE		NGS-OMX SSP-OLE
402	SBT-GD	SBT-GD	SBT-GD	SBT-GD			SBT-GD		SBT-GD
403	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL		NGS-GIL
714	SBT-GIL	SBT-GIL	SBT-GIL	SBT-SC			SBT-SC		SSO-LUM-OL
726	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH	NGS-INH
769	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM	NGS-IMM
805	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL
1189	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
1251	NGS-GIL SBT-PRO	NGS-GIL SBT-PRO	NGS-GIL SBT-PRO	NGS-GIL SBT-PRO	NGS-GIL SBT-PRO	NGS-GIL	NGS-GIL SBT-IMM	NGS-GIL	NGS-GIL Other-Others SBT-PRO SSO-LUM
1686	SSP-OLE	Other-Others SSP-OLE	SSP-OLE	SSP-OLE	Other-Others SSP-OLE	Other-Others SSP-OLE	Other-Others SSP-OLE	Other-Others SSP-OLE	Other-Others SSP-OLE
2063	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL	NGS-IL
3325	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17	NGS-Tx17
3410	NGS-GIL	NGS-GIL	NGS-GIL	NGS-GIL			NGS-GIL SSO-OL SSP-GV		NGS-GIL SSO-OL
3438	SBT-TBG	SBT-TBG-WAK	SBT-TBG	SBT-TBG			SBT-TBG		
3582	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL
3600									rtPCR-LB
3614	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX
3625	SBT-INH	SBT-INH	SBT-INH	SBT-INH		SBT-INH	SBT-INH		SBT-INH
3849	SBT-CG-INH	SBT-CG-INH	SBT-CG-INH	SBT-OL			SBT-OL		
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK
4545	SBT-SC SSO-OL	SBT-SC SSO-OL	SBT-SC SSO-OL	SBT-SC SSO-OL			SBT-SC SSO-OL		SBT-SC SSO-OL
4551	NGS-OMX	NGS-OMX	NGS-OMX	NGS-OMX		NGS-OMX	NGS-OMX		NGS-OMX
4582	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE	NGS-OLE
4613	SBT-GD SSP-OLE	SBT-GD SSP-OLE	SBT-GD SSP-OLE						SBT-GD SSP-OLE
5451	SBT-INH	SBT-INH	SBT-INH						
6051	NGS-IL-OLE	NGS-IL-OLE	NGS-IL-OLE	NGS-IL-OLE	NGS-IL-OLE	NGS-IL-OLE	NGS-IL-OLE	NGS-IL-OLE	NGS-IL-OLE
14982	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL	NGS-OL

## Participants and Methods Low Resolution

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
80	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS	SSO-OL rtPCR-LS
124	SSO-BAG-OLE	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG
134	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
138	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
144	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM		SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM
147	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
148	SSO-BAG	SSO-BAG	SSO-BAG	SSO-BAG			SSO-BAG		
151	SSO-OL	SSO-OL	SSO-OL				SSO-OL		SSO-OL
152	SSP-OL	SSP-OL		SSP-OL					
158	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL	SSO-OL SSP-OL
162	SSP-BS	SSP-BS	SSP-BS	SSP-BS			SSP-BS		
189	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
190	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE		
192	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
195	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB	SSO-OL rtPCR-LB
199				SSP-OL	SSP-OL		SSP-OL		
205	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
207	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS
209	SSP-BR-PRO	SSP-BR-PRO	SSP-BR-PRO	SSP-PRO	SSP-PRO	SSO-OL	SSO-OL SSP-PRO		
213	SSP-INN	SSP-INN	SSP-INN-OLE	SSP-INN		SSP-INN	SSP-INN	SSP-INN	SSP-INN
215	SSP-BR	SSP-BR	SSP-BR	SSP-BR	SSP-BR		SSP-BR		
227	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
228	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG		SSP-BAG		
239	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
242	SSP-OL-OLE	SSP-OLE	SSP-OL-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		
252	SSP-INN	SSP-INN	SSP-INN	SSP-INN	SSP-INN	SSP-INN	SSP-INN	SSP-INN	SSP-INN
255	SSO-OL	SSO-OL		SSO-OL					
260	SSP-BR-PRO	SSP-BR-PRO	SSP-BR-PRO	SSP-BR-PRO	SSP-BR-PRO		SSP-BR-PRO		
262	SSP-PRO	SSP-OLE-PRO	SSP-OLE-PRO	SSP-PRO	SSP-PRO	SSP-OLE	SSP-PRO		
265	SSP-OL	SSP-OL	SSP-OL	SSP-OL	SSO-OL	SSO-OL	SSP-OL	SSO-LC-OL	SSP-OL
266	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
267	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL
279	SSP-LB-OLE	SSP-LB-OLE	SSP-LB-OLE	SSP-LB-OLE	SSP-LB	SSP-LB	SSP-LB-OLE	SSP-LB	SSP-LB
282	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE			SSP-OLE		
285	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
286	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL		SSO-LUM-OL	SSO-LUM-OL		
290	SSO-OL	SSO-OL		SSO-OL					
292	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
293	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	Other-Others	SSO-IMM	SSO-IMM		
294	Other-Others SSO-IMM SSP-OLE	Other-Others SSO-IMM SSP-OLE	Other-Others SSO-IMM SSP-OLE	Other-Others SSO-IMM SSP-OLE		SSP-OLE	SSO-IMM SSO-IMM SSP-OLE		SSP-OLE
305	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL		
309	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
311	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-PRO	SSP-OLE	SSP-PRO		
318	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
323	SSP-OLE rtPCR-LB	SSP-OLE rtPCR-LB	SSP-OLE rtPCR-LB	SSP-OLE rtPCR-LB		rtPCR-LB	SSP-OLE rtPCR-LB	rtPCR-LB	rtPCR-LB
328	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL		

**Participants and Methods Low Resolution**

CENTER	A	B	C	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
329	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE	SSP-OLE		SSP-OLE		
334	SSO-OL	SSO-OL	SSO-OL	SSO-OL		SSO-OL	SSO-OL	SSO-OL	SSO-OL
336	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG	SSP-BAG		SSP-BAG		
339	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT
342	SSP-OL	SSP-OL		SSP-OL	SSP-OL		SSP-OL		
343	SSP-OL	SSP-OL		SSP-OL			SSP-OL		
402	SSO-IMM-OL	SSO-IMM-OL	SSO-IMM-OL	SSO-IMM-OL			SSO-IMM-OL		SSO-IMM
615	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
714	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL	SSO-LUM-OL			SSO-LUM-OL		
726	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
732	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
805	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM
1251	Other-Others SSO-IMM-LUM	Other-Others SSO-IMM-LUM	Other-Others SSO-IMM-LUM	Other-Others SSO-IMM-LUM	Other-Others SSO-IMM-LUM	Other-Others SSO-IMM-LUM	Other-Others SSO-IMM-LUM	Other-Others SSO-IMM-LUM	Other-Others SSO-IMM-LUM
1647	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
2063	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS
2518	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
3438	SSP-INT	SSP-INT	SSP-INT	SSP-INT	SSP-INT		SSP-INT		
3600	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
3625	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM	SSO-IMM
3849	SSO-INH	SSO-INH	SSO-INH	SSO-INH	SSO-INH		SSO-INH		
4420	SSO-WAK	SSO-WAK	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK	SSO-WAK	SSO-LC	SSO-WAK
4582	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others	Other-Others
4585	SSO-LUM	SSO-LUM	SSO-LUM	SSO-LUM		SSO-LUM	SSO-LUM		
4613	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS			rtPCR-LS		
5451	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	rtPCR-LS	
8050	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	rtPCR-CQ	Other-Others rtPCR-CQ	rtPCR-CQ
9221	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL	SSO-OL
	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB	rtPCR-LB
9222	SSO-LUM			SSO-LUM					